

CLAIMS

1. A liquid-absorbent composition, comprises:
a powder of a liquid-absorbent crosslinked resin
5 produced by crosslinking a methyl vinyl ether/maleic
anhydride copolymer with a polyfunctional isocyanate
compound, and
a binder resin.
- 10 2. The liquid-absorbent composition according to
Claim 1, wherein said powder has an average particle
diameter of 0.1 to 150 μm .
- 15 3. The liquid-absorbent composition according to
Claim 1 or 2, wherein said methyl vinyl ether/maleic
anhydride copolymer has a weight average molecular weight
of 50,000 to 1,200,000.
- 20 4. The liquid-absorbent composition according to
any of Claims 1 to 3, wherein the polyfunctional
isocyanate compound is used in an amount of 0.1 to 2 mol
per 100 mol of the constituent monomer units of the methyl
vinyl ether/maleic anhydride copolymer.

5. The liquid-absorbent composition according to any of Claims 1 to 4, wherein the polyfunctional isocyanate compound is a trifunctional isocyanate compound.

5 6. A liquid-absorbent sheet, comprising a supporting substrate and formed on one side thereof a liquid-absorbent crosslinked resin layer produced by crosslinking a methyl vinyl ether/maleic anhydride copolymer with a polyfunctional isocyanate compound.

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7. The liquid-absorbent sheet according to Claim 6, wherein an adhesive layer is formed on the other side of the supporting substrate.

15 8. The liquid-absorbent sheet according to Claim 6, wherein said liquid-absorbent crosslinked resin layer contains a pressure-sensitive adhesive.

9. The liquid-absorbent sheet according to any of
20 Claims 6 to 8, wherein said methyl vinyl ether/maleic anhydride copolymer has a weight average molecular weight of 50,000 to 1,200,000.

10. The liquid-absorbent sheet according to any of
25 Claims 6 to 9, wherein the polyfunctional isocyanate compound is used in an amount of 0.1 to 2 mol per 100 mol

of the constituent monomer units of the methyl vinyl ether/maleic anhydride copolymer.

11. The liquid-absorbent sheet according to any of
5 Claims 6 to 10, wherein the polyfunctional isocyanate compound is a trifunctional isocyanate compound.

12. A method for manufacturing a liquid-absorbent crosslinked resin, comprising dissolving a methyl vinyl
10 ether/maleic anhydride copolymer in an amount of 3 to 35 wt% in a solvent with an SP value of 9 to 14, and adding a polyfunctional isocyanate compound to this solution to perform a crosslinking reaction.

13. The manufacturing method according to Claim 12,
15 wherein said methyl vinyl ether/maleic anhydride copolymer has a weight average molecular weight of 50,000 to 1,200,000.

14. The manufacturing method according to Claim 12
20 or 13, wherein the polyfunctional isocyanate compound is used in an amount of 0.1 to 2 mol per 100 mol of the constituent monomer units of the methyl vinyl ether/maleic anhydride copolymer.

15. The manufacturing method according to any of Claims 12 to 14, wherein the polyfunctional isocyanate compound is a trifunctional isocyanate compound.

5 16. A nonaqueous electrolyte battery pack,
comprising a battery case and disposed within the battery
case a nonaqueous electrolyte battery cell, a wiring
circuit board, and an electrolyte absorption member for
absorbing electrolyte in the event that electrolyte leaks
10 from a nonaqueous electrolyte battery cell, wherein said
electrolyte absorption member is formed from the liquid-
absorbent composition according to any of Claims 1 to 5.

15 17. A nonaqueous electrolyte battery pack,
comprising a battery case and disposed within the battery
case a nonaqueous electrolyte battery cell, a wiring
circuit board, and an electrolyte absorption member for
absorbing electrolyte in the event that electrolyte leaks
from a nonaqueous electrolyte battery cell, wherein said
20 electrolyte absorption member is formed from the liquid-
absorbent composition or liquid-absorbent sheet according
to any of Claims 6 to 11.